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TRINITROTOLUENE, TNT

Trinitrotoluene, trotil, Tolite, Tritol, Trinitrotoluol, Trotyl, Füllpulver 02

2,4,6-trinitrotoluen; C₇H₅N₃O₆ (227.1)

Appearance: Pale yellow to light brown flakes or pellets

Class 1.1D, UN 0209

Transport RID/ADR, IMGD

Crystal density, g/cm³: 1,654

Detonation velocity, m/s: 6900

Oxygen balance, % (m/m): -73,9

Heat of explosion kJ/kg: 4519

Impact sensitivity, N/m: 15

Technical specification

	Typ A			Typ B	
	Grade I	Grade II	Grade III	Grade 22	Grade 22-I
1. Color and appearance	pale yellow to light brown flakes, without mechanical impurities				
2. Solidification point, °C min	80,40	80,20	80,00	77	79
3. Moisture, % (m/m), max	0,10			0,15	
4. Matters insoluble in benzene, % (m/m), max	0,05			0,10	
5. Nitrates and tetranitromethane	not allowed			max 40 mg/kg, without TNM smelt	
6. Alkalinity	must not be alkaline				
7. Acidity (as H ₂ SO ₄), % (m/m), max	0,01			0,02	
8. Ash, % (m/m), max	0,10			0,10	
9. Volatile matters	Withstand test at 65° C for at least 30 min.			-	
10. Impact sensitivity	-			a weight of 2 kg dropped from a height of 90 cm must not cause explosion of pulverous TNT sample	

TNT, typ A according to American Standart MIL-T-248C, type I can also be supplied.